



DLA Aging Systems Program: Technology Investment for Sustainment

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What DLA Does



- Manage and provide parts and supplies
 - Services
 - Contractors
 - Foreign Countries
- Acquire, stock, issue and deliver
 - Weapon system parts – Aviation, Land, Maritime
 - Medical
 - Subsistence
 - Clothing & Textiles
 - Construction & Equipment
 - Energy



DLA Aviation Business



	FY 02	FY 04
NSNs	1,042,979	1,086,143
Gross Sales	\$4.3 B	\$4.4 B
On-Hand Inventory	\$4.7 B	\$5.3 B
Units Shipped	198,002,963	221,868,185
Units In Stock	450,996,790	449,128,187
Suppliers	6,163	5,828



DLA Aging Systems



Weapon System Category	Number of Weapon systems	Number of NSNs
Aviation	291	928,855
Land	460	252,687
Maritime	206	633,549
Multiple / Unassigned	132	390,669 (322,792 > 1 category)
Total	1119	2,205,760 4



Aging Systems Program Mission



- Explore and prototype tools and technologies that can:
 - Help DLA people do their jobs better/easier in supporting DLA customers
 - Help DLA customers collaborate better with DLA people

ADDRESS DLA CUSTOMER SUPPORT ISSUES



Technical Thrusts



- Advanced Manufacturing
- Sustaining Engineering
- Parts Situation Awareness - Supply Response Time
- Specialized Analyses



Advanced Manufacturing



- **Focus** – new and advanced factory floor processes and products
- **Goals** – improve DLA's response to customer needs for parts availability, reliability and cost reduction
- **Development Products** – validated advanced manufacturing processes



Sustaining Engineering



- **Focus** - tools and methods for sustaining engineering functions
- **Goals** - improved supply support to aging systems
- **Development Products** - streamlined methods to identify problem parts; qualify parts and suppliers; and maintain technical data



Supply Response Time/Parts Situation Awareness



- **Focus** – improve DLA’s item management, demand visibility and order fulfillment
- **Goals** - improve supply availability and reduce customer wait time
- **Development Products** - validated recommendations for changes to policies, procedures and information systems



Specialized Analyses



- **Focus** – in depth assessments to support DLA
- **Goals** – analyses to guide future activities and to assist various DLA functions
- **Development Products** – analytical results for management decisions



Website



- <http://www.dla-aa.us>
- Program mission – Logistics R&D
- Examples of past projects
- Current program focus
- Upcoming events



Sustaining Engineering in DLA



- Pilot initiated in Nov 02 by Aging Aircraft program and DSCR command
- Importance recognized by DLA command
- Current funding ~ \$22M/yr at DSCR
- Engineering staff in place
- 51 projects - reliability improvement
- Customer focused improvements
- Similar effort at DSCC, different approach
- R&D support from Aging Systems Program



AGILE SUSTAINMENT



- OSD sponsored
- Sustaining systems over extended life cycle at minimum cost to taxpayer
- Initial meeting had broad foundation
- Focused on source development at DSCR
 - Increase competition
 - Reduce source approval hurdles
 - Proactive management of sources



AGILE SUSTAINMENT cont'd



- DSCR Action Plan
 - “Rockpile” – 100 oldest backorders
 - Technical review for issues causing delay
 - Analysis to determine items with similar issues
 - Group items by corrective action desired
 - Distribute lists of items to obtain new sources, qualify additional sources, or reverse engineer items
 - Engage suppliers, Service initiatives and other programs



Sustaining Engineering Center of Excellence



➤ What is it?

- A collection of resources focused on long term solutions to nagging logistics problems impacting DLA items

➤ How does it operate?

- DSCR engineers, management, contractors or suppliers identify opportunities
- Project is evaluated per established criteria
- Projects are categorized for action in house, by industry or by academia
- Metrics are captured at the end of each project and compared to projected savings, etc.



Standardization -Example Activities



- QwikSTEP
- Aircraft Batteries



QwikSTEP



- Project to broaden DLA use of product data compliant with the STEP international standard
- Pilot adoption processes and measure benefits
- 20 NSNs for Army items
- Process steps:
 - Convert raster scanned drawings to CAD compliant with AP203 and AP224
 - ESA approves new product data and includes in TDP
 - DSCC stores new TDP
 - DSCC posts new TDP with RFQ
 - Capture benefits to vendor after award
- Status: 7 months into 18 month project
- Pilot success expected to lead to broader DLA initiative



Aircraft Batteries



- Joint project with NAVAIR
- Approach to achieve a standardized solution in battery replacement for multiple weapon systems
- Batteries for backup emergency power
 - 7 applications on 6 Navy aircraft
- Replace Ni-Cad with sealed lead-acid batteries
- Savings in acquisition, storage & maintenance costs
- Process steps:
 - Redesign
 - Prototyping
 - Electrical Performance and flight testing
 - Technical documentation
- Status: 6 in flight testing; one about to start



Summary



- Systems engineering is important to DLA
- Includes Standardization objectives
- Aging Systems Program provides resources and supports jointness to meet objectives
- Future emphasis: broadly applicable technologies, common parts, and new tools



Questions???

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Backup



Joint Activities



- Joint Council on Aging Aircraft
 - NAVAIR Batteries
 - Fuel cell development
 - Academic Center for Aging Aircraft (ACAA) projects
- DOD Manufacturing Technology
 - Casting / Forging programs
 - Commercial Technology for Maintenance Activities (CTMA) projects
 - Next Generation ManTech Initiative

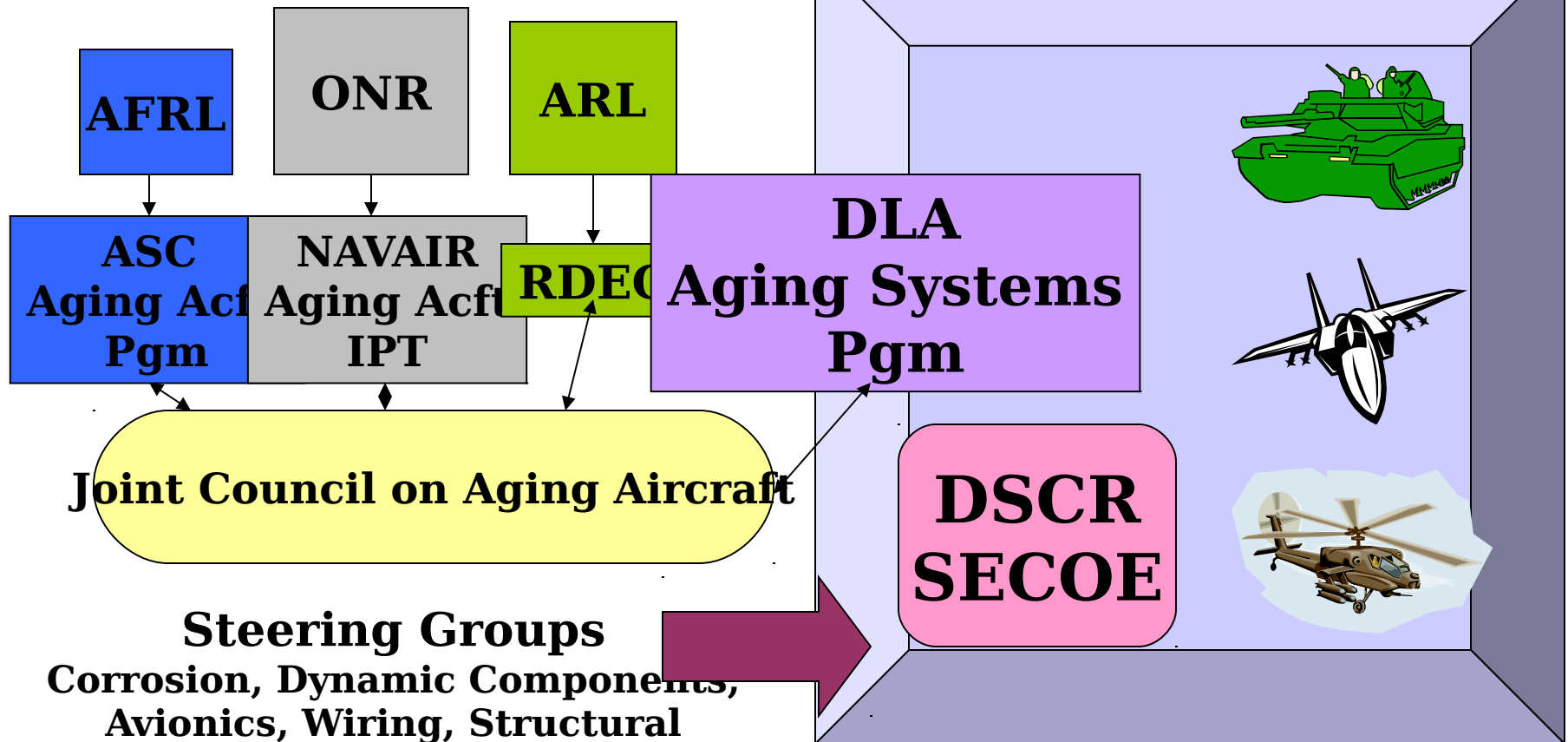


Sustaining Engineering in DLA



DOD R&D Enterprise

Technology Transition





Sustaining Engineering Center of Excellence

